

CLAIMS

1. An electroactive photonic device (D) comprising a substrate (1), at least one cathode layer (2), at least one anode layer (4), and at least one layer of active material (3) based on organic compounds and interposed at least partially between the anode and cathode layers (2, 4), the said layers (2, 3, 4) being arranged on the substrate (1) in a predetermined configuration such that the device (D) can convert luminous energy into electrical energy or vice versa, characterized in that the substrate (1) is made of float glass.
2. A device according to Claim 1 in which the substrate (1) is made of tempered glass.
3. A device according to any one of the preceding claims, in which the electrode layers (2) that are interposed between the substrate (1) and the layer of active material (3) are transparent to luminous radiation.
4. A device according to any one of the preceding claims in which the cathode and anode layers (4, 2) are transparent to luminous radiation.
5. A device according to Claim 4 or Claim 5 in which the transparent electrode layers (2, 4) are made of metal and are thin enough to allow light to be transmitted through them.
6. A device according to any one of the preceding claims in which the anode layers (2) are made of gold.
7. A device according to any one of the preceding claims in which the cathode layers (4) are made of aluminium.

8. A device according to any one of the preceding claims, further comprising a hole-transport layer interposed between the anode layers (2) and the layer (3) of active material.

9. A device according to Claim 8 in which the hole-transport layer is made of PEDOT-PSS, TPD, PBD, or CuPc.

10. A device according to any one of the preceding claims, further comprising an electron-transport layer interposed between the cathode layers (4) and the layer (3) of active material.

11. A device according to Claim 10 in which the electron-transport layer is made of aluminium tris-8-hydroxyquinoline.

12. A device according to any one of the preceding claims, characterized in that it is at least partially covered by an encapsulation layer.

13. A device according to any one of the preceding claims, configured as a light-emitting device.

14. A device according to any one of Claims 1 to 11, configured as a solar cell.

15. A light-emitting system, in particular, for illumination or indication, characterized in that it comprises a plurality of devices according to Claim 13, arranged in a predetermined configuration.